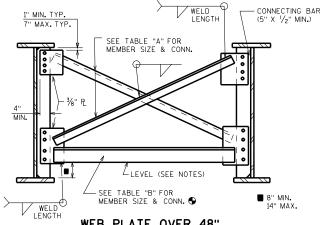
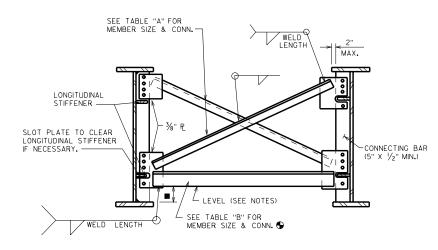


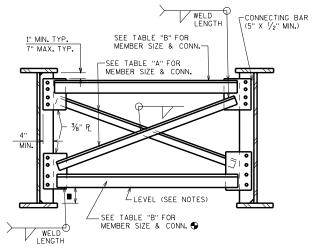
WEB PLATE < 48" TYP. IN SPAN & AT PIER



WEB PLATE OVER 48" TYP. IN SPAN & AT PIER



WEB PLATE OVER 48" WITH LONGITUDINAL STIFFENERS TYP. IN SPAN & AT PIER



TYP. CURVED GIRDER DIAPHRAGM ALSO USE TOP HORIZONTAL MEMBER AT DIAPHRAGMS ADJACENT TO KINK POINTS OF KINKED GIRDERS

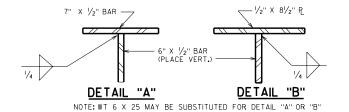
- & OF BRG. AT ABUT. — € OF GIRDER € OF BRG. AT ABUT. € OF PIER C OF GIRDER END DIAPH. SEE STD. 24.4 FOR DETAILS — CROSS FRAME CROSS FRAME OR DIAPH., TYP. OR DIAPH. TYP. BEARING STIFFENERS - BEARING STIFFENERS-CONNECT AT LEAST ONE CROSS FRAME OR DIAPH. AT EACH BRG. 25'-0" MAXIMUM SPACING - CONN. BAR (5" X 1/2" MIN.) CONN. BAR (5" X 1/2" MIN.) FRAMING PLAN FOR SKEW < 15° FRAMING PLAN FOR SKEW > 15°

TABLE "A"

SIZE	MAX.LENGTH OF MEMBER	WELD LENGTH	NO.OF ¾" ¢ BOLTS	WEIGHT PER FT.
L 31/2 X 31/2 X 5/6	21'-6"	9"	4	7.2#
L 4 X 4 X 5/6	25'-0"	11"	4	8.2#
L 5 X 5 X 1/16	31'-0"	14"	5	10.3#

TABLE "B"

SIZE	MAX.LENGTH OF MEMBER	WELD SIZE	WELD LENGTH	NO.OF ¾" φ BOLTS	WEIGHT PER FT.
L 5 X 5 X 1/6	11'-6"	1/4"	11"	4	10.3#
L 6 X 6 X 3/8	13'-6"	5/16 "	13"	6	14.9#
1/2" T SECTION SEE DETAIL "A"	17'-6"	5/16 ''	14"	7	16.6#
1/2" T SECTION SEE DETAIL "B"	22'-0"	3%"	13"	7	18.5#



ALL BOLTED CONNECTIONS SHALL BE FRICTION TYPE USING $\cde{34}"$ ϕ High strength bolts (a.s.t.m. A325) with double washers.

FOR SPANS OVER 200, THE CROSS FRAMES AT THE PIERS SHALL BE DESIGNED TO RESIST THE LATERAL LOADS THAT ARE TRANSFERRED TO THE PIERS.

DIAPHRAGMS OR LOWER CROSS FRAME MEMBERS ARE SLOPED WHEN DIFFERENCE IN ADJACENT BOTTOM FLANGE ELEVATIONS EXCEEDS 6". HOLD 8" FROM TOP OF ADJACENT FLANGES TO BOTTOM OF DIAPHRAGMS OR LOWER CROSS FRAME WHEN THESE MEMBERS ARE SLOPED.

DIAPHRAGMS OR LOWER CROSS FRAME MEMBERS THAT ARE LEVEL SHALL BE PLACED 8" ABOVE THE TOP OF THE HIGHER BOTTOM FLANGE OF ADJACENT GIRDERS.

HOLES IN CROSS FRAME CONNECTIONS MAY BE OVERSIZED @ $^{15}\!\! \%$ " DIA. IN 1 PLY.

♦ HORIZONTAL CROSSFRAME MEMBER TO HAVE HORIZONTAL LEG TOP (AS SHOWN) WHEN NO LOWER LATERALS ARE USED, WHEN LOWER LATERALS ARE USED THE HORIZONTAL LEG SHALL BE ON THE BOTTOM, THIS IS TO ALLOW FRAMING INTO THE LOWER LATERAL GUSSET.

PLATE GIRDER DIAPHRAGMS AND CROSS FRAMES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DEVELOPMENT SECTION

APPROVED:

24.3